PATENT COOPERATION TREATY

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INTERNATIONAL SEARCHING AUT	THORITY					
To: Albihns Stockholm AF	3		PCT			
Röntgenvägen 2 171 95 Solna Sverige		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
et al			(PCT Rule 43bis.1)			
		Date of mailing (day/month/year)	0 9 -03 - 2005			
Applicant's or agent's file reference		FOR FURTHER A	FOR FURTHER ACTION			
76010-77345			See paragraph 2 below			
International application No. PCT/SE2004/001831	International filing da	te (day/month/year)	Priority date (day/month/year) 10-12-2003			
International Patent Classification (IPC) A61M 16/18, F161 29/0		fication and IPC				
Applicant Maquet Critical Care	AB et al					
This opinion contains indications relations	ating to the following i	tems:				
Box No. I Basis of the op	inion					
Box No. II Priority						
Box No. III Non-establishm	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity o	f invention					
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
l ———	Box No. VI Certain documents cited					
Box No. VII Certain defects	in the international app	olication				
Box No. VIII Certain observa	Box No. VIII Certain observations on the international application					
2. FURTHER ACTION						
International Preliminary Examining Authority other than this one to be IP written opinions of this International	Authority ("IPEA") ex- EA and the chosen IPE Searching Authority with	cept that this does not ap EA has notified the Inter- ill not be so considered.	national Bureau under Rule 66.1 bis(b) that			
If this opinion is, as provided above, of IPEA a written reply together, where of Form PCT/ISA/220 or before the e	appropriate, with amen	ndments, before the expi	, the applicant is invited to submit to the iration of 3 months from the date of mailing whichever expires later.			

3. For further details, see notes to Form PCT/ISA/220.

For further opinions, see Form PCT/ISA/220.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE2004/001831

Во	x No. I	Basis of this opinion
1.	which it	ard to the language, this opinion has been established on the basis of the international application in the language in was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3)
	a	nd 23.1(b)).
2.	claimed	ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of: of material a sequence listing table(s) related to the sequence listing
	h forma	t of material
	U. TOTALIA	in written format
		in computer readable form
	c. time	of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addition	al comments:
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-7	YES
	Claims		NO
Inventive step (IS)	Claims	2, 5-7	YES
	Claims	1, 3, 4	NO
Industrial applicability (IA)	Claims	1-7	YES
	Claims		NO

2. Citations and explanations:

The invention relates to a coupling system for transfer of an anaesthetic liquid from a bottle to a vaporizer and to a method of hermetically coupling and decoupling a bottle part and a vaporizer part for transfer of an anaesthetic liquid. According to the invention, first and second valves comprising cooperating valve bodies and reactive bodies are arranged to prevent the anaesthetic liquid from leaking during the coupling and decoupling.

Reference is made to the following documents:

D1: EP 1 304 132 A1 D2: GB 898 955 A D3: WO 98 23 891 A1

D1 describes the general prior-art on which the invention is based. In D1 a coupling system for transfer of an anaesthetic liquid from a bottle to a vaporizer is shown. The claimed invention differs from the shown prior-art by comprising seals arranged between the first and second valve bodies and the first and second reactive bodies which, when the parts are coupled together, abut sealingly against the respective parts.

D2 shows a coupling system for connecting two hydraulic pipes, the fluid of which is under pressure. The coupling system includes a valve arrangement comprising first and second valve bodies and first and second reactive bodies as shown in the invention and also comprises seals between valve body and reactive body in accordance with the invention.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,V\,$

In D3, another coupling system similar to the one described in D2 is shown. Here, the inner cooperating parts of the valve arrangement are formed with a protrution and a corresponding recess respectively to improve the sealing function.

D1 is considered to represent the closest prior-art. The difference between the invention as claimed and the priorart as described is, as has already been shown above, the seals that the cooperating valve bodies and the reactive bodies have been provided with.

The problem to be solved by these special technical features is to prevent the leakage of anaestethic fluid when connecting and/or disconnecting the coupling parts.

However, as seen from the cited document D2, the problem associated with leaking fluids when connecting and disconnecting coupling parts has been observed (see page 1, lines 57-61) and the solution suggested by the document is to provide the valve arragement with seals that prevents this leakage. The seals are positioned on the respective parts in correspondence with the solution as decsribed in the invention.

Although the shown prior-art relates to other technical fields, a person skilled in the art faced with the problem described would not hesitate to look for solutions related to coupling arrangements according to D2 (or D3) or to use these in a coupling arrangement according to D1.

The invention as described in claim 1 therefore lacks inventive step.

As seen from D3, the cooperating parts of the valve arrangement have been formed to fit into each other by providing a protrution on one part and a recess on the other part, thereby improving the sealing function of the valve arrangement. Also, a similar design of the valve parts is shown in D2.

It is therefore considered to be an obvious step for a person skilled in the art to improve a coupling system having a valve arrangement according to D1 by using the teachings of D2 or D3.

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Supplemental Box

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The invention as claimed in claims 3 and 4 therefore lacks inventive step.

The invention as claimed in claims 2 and 5-7 has been found to have novelty and to involve an inventive step in respect of the prior-art described in D1-D3.

The invention also has industrial applicability

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The following defects in the form or content of the international application have been noted: Claim 4 is dependent on "any of claims 1-3" although special technical feature "recess" to which the claim referring appears for the first time in claim 3. Claim 4 therefore only be dependent on claim 3.	m is
special technical feature "recess" to which the claim referring appears for the first time in claim 3. Claim 4	m is
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